

Claims

1. A method for estimating a movement speed of a mobile unit in a mobile radio communication system, comprising:
 - (A) receiving a signal corresponding to a mobile unit transmitting signal;
 - (B) generating a first signal by using a first filter unit to filter said signal, said first filter unit having a first cut-off frequency;
 - (C) obtaining a first speed by estimating said movement speed based on said first signal;
 - (D) generating a second signal by using a second filter unit to filter said signal, said second filter unit having a second cut-off frequency;
 - (E) obtaining a second speed by estimating said movement speed based on said second signal; and
 - (F) selecting one of said first speed and said second speed to be said movement speed.
2. The method of claim 1, wherein step (F) selects said movement speed according to a predetermined speed, further comprising:
 - selecting said second speed to be said movement speed while said first speed is slower than said predetermined speed.
3. The method of claim 2, wherein said first cut-off frequency is 375 Hz, and said second cut-off frequency is 250 Hz.
4. The method of claim 3, wherein said predetermined speed is 120 km/hour.
5. The method of claim 2, wherein said first cut-off frequency is 250 Hz, and said second cut-off frequency is 125 Hz.
6. The method of claim 5, wherein said predetermined speed is 60 km/hour.
7. The method of claim 2, wherein said first cut-off frequency is 125 Hz, and said second cut-off frequency is 62.5 Hz.

8. The method of claim 7, wherein said predetermined speed is 30 km/hour.
9. A system for estimating a movement speed of a mobile unit, comprising:
 - a receiving unit for receiving a signal corresponding to a transmitting signal of said mobile unit;
 - a first filter unit for filtering said signal to generate a first signal, said first filter unit having a first cut-off frequency;
 - a second filter unit for filtering said signal to generate a second signal, said second filter unit having a second cut-off frequency;
 - an estimated unit for obtaining a first speed by estimating said movement speed based on said first signal, and obtaining a second speed by estimating said movement speed based on said second signal; and
 - a selecting unit for selecting one of said first speed and said second speed to be said movement speed.
10. The system of claim 9, wherein said selecting unit defines a predetermined speed.
11. The system of claim 10, wherein said selecting unit selects said second speed to be said movement speed while said first speed is slower than said predetermined speed.
12. The system of claim 11, wherein said first cut-off frequency is 375 Hz, and said second cut-off frequency is 250 Hz.
13. The system of claim 12, wherein said predetermined speed is 120 km/hour.
14. The system of claim 11, wherein said first cut-off frequency is 250 Hz, and said second cut-off frequency is 125 Hz.
15. The system of claim 14, wherein said predetermined speed is 60 km/hour.
16. The system of claim 11, wherein said first cut-off frequency is 125 Hz, and said second cut-off frequency is 62.5 Hz.
17. The system of claim 16, wherein said predetermined speed is 30 km/hour.